

CURRICULUM VITAE

FRANCES MARIKO HAYASHIDA

March 6, 2014

CURRENT ADDRESS: Department of Anthropology
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EDUCATION

1995 Ph.D., University of Michigan, Dept. of Anthropology
1984 M.A., Stanford University, Dept. of Anthropology
1984 B.A. with distinction, Stanford University, Dept. of Anthropology

EMPLOYMENT

2008-present Associate Professor, Dept. of Anthropology, University of New Mexico and faculty affiliate,
Latin American and Iberian Institute
2006-2008 Assistant Professor, Dept. of Anthropology, University of Missouri and faculty affiliate,
Conservation Biology Program
1998- 2006 Assistant Professor, Dept. of Anthropology, Pennsylvania State University
1997-1998 Research Fellow, Dept. of Physics, Technical University of Munich, Archaeometry Program
1997 Lecturer, Dept. of Anthropology, University of Virginia (Spring Term)
1996 Archaeologist, Planning Office, Stanford University

RESEARCH FELLOWSHIPS AND GRANTS

Principal Investigator

2013-2014 National Science Foundation Catalyzing New International Collaborations Grant, *Agriculture and Empire in the High Altitude Atacama*, OISE-1265816 (\$68,345)
2013-2014 Wenner-Gren Foundation for *Anthropological* Research, International Collaborative Research Grant, *Agriculture and Empire in the High Altitude Atacama* submitted by F. Hayashida and A. Troncoso (Universidad de Chile) with co-Principal Investigators C. Parcerro-Oubiña Consejo Superior de Investigaciones Científicas , Spain) and D. Salazar(Universidad de Chile) (\$34,233)
2013-2014 National Geographic Society Research and Exploration Grant #9296-13, *Agriculture and Empire in the High Altitude Atacama*, with co-Principal Investigators C. Parcerro-Oubiña, D. Salazar and A. Troncoso (\$25,056)
2013 Latin American and Iberian Institute, Field Research Grant, *Agriculture and Empire in the High Altitude Atacama* (\$1620)
2008-2012 National Science Foundation Archaeology Grant BCS-0838211, *The Ynalche Project: The Political Ecology of Late Prehispanic Agriculture on the North Coast of Peru*, (\$259,048)
2008 Wenner-Gren Foundation for Anthropological Research (\$24,997)
2008-2009 Research Council, Research Leave, University of Missouri (awarded but declined)
2007 Research Council Grant, University of Missouri (\$7,445) (awarded but declined)
2007 Research Council Grant, University of Missouri (\$1,000)
2007 Research Council Grant, University of Missouri (\$7,414)
2006 University of Missouri, Arts and Sciences Alumni Organization Faculty Incentive Grant (\$1,482)

- 2006 Research Council Grant, University of Missouri (\$1,000)
 2000-2004 National Science Foundation Archaeology Grant BCS-0001290 (\$158,698)
 2001-2004 National Science Foundation Research Experience for Undergraduates Supplement to BCS-0001290 (\$8,000)
 2000 National Geographic Society Research and Exploration Grant #6806-00 (\$16,000)
 2000 Wenner-Gren Foundation for Anthropological Research, Regular Grant (\$10,080)
 2000 Research and Graduate Studies Office, Pennsylvania State University, Research Grant (Roy C. Buck Fund Award) (\$7,500)
 1999 Research and Graduate Studies Office, Pennsylvania State University, Research Grant (\$7,000)
 1999 Heinz Family Foundation Grant, Latin American Archaeology Program (\$7,999)
 1998-1999 Chancellor's Postdoctoral Fellowship Program for Academic Diversity, University of Colorado (awarded but declined)
 1997-1998 National Science Foundation International Research Fellowship INT-9703587 (\$43,125)
 1997-1998 German Academic Exchange Service (DAAD) Research Grant (awarded but declined)
 1995 Wenner-Gren Foundation for Anthropological Research, Regular Grant
 1994-1995 Dumbarton Oaks (Harvard University), Junior Fellowship
 1991 Missouri University Research Reactor Training Grant
 1991 Wenner-Gren Foundation for Anthropological Research, Predoctoral Grant.
 1989-1990 National Science Foundation Dissertation Improvement Grant (\$7,070)
 1989-1990 Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship
 1989-1990 Social Science Research Council International Doctoral Research Fellowship
 1988 CIC International Studies Fellowship
 1983 Summer Field Research Grant, Stanford University, Dept. of Latin American Studies
 1983 Summer Field Research Grant, Stanford University, Dept. of Anthropology

U.S. Counterpart

- 2014-2016 Comisión Nacional de Investigación Científica y Tecnología (CONICYT, Chile), Concurso de apoyo al desarrollo de proyectos de investigación Chile – Estados Unidos, [National Commission for Scientific Research and Technology, Chile, Program to Support Chilean-American Research Projects], *Water Management and Agrohydraulic Systems in Desert Environments: the Upper Loa from A.D. 1000-1500*, proposal co-author and project co-Principal Investigator with A. Troncoso and D. Salazar (Universidad de Chile), and C. Parcerro-Oubiña (Consejo Superior de Investigaciones Científicas, Spain) (150,000,000 CLP, ca \$270,000)

OTHER FUNDING

- 2013 University of New Mexico, Latin American and Iberian Institute, new course development grant for *The Aztec and Inka Empires* (\$2500)
 2010 University of New Mexico, Latin American and Iberian Institute, new course development grant for *Indigenous People, Environmental Knowledge and Conservation* (\$2,500)
 2010 University of New Mexico Office of Graduate Studies, Graduate Recruitment Grant (proposal written by F. Hayashida on behalf of the Dept. of Anthropology) (\$1500)
 2005 Pennsylvania State University, International Programs, Faculty Travel Fund, New Places, New Challenges Award to develop course and study tour, *Strategies for Sustainability, Case Studies from Peru* (\$2,050)
 2005 Pennsylvania State University Global Fund Travel Grant to develop course and study tour, *Strategies for Sustainability, Case Studies from Peru* (\$1,750)

EDUCATIONAL AWARDS AND FELLOWSHIPS

- 1994 Rackham One-Term Dissertation Fellowship, University of Michigan
 1992-1993 American Association of University Women, American Fellowship

1991 Rackham Merit Fellowship, University of Michigan
1985-1990 CIC Minority Fellowship for Graduate Studies in the Social Sciences
1984 Phi Beta Kappa, Stanford University

MAJOR RESEARCH INTERESTS

Andean archaeology and ethnohistory
Complex societies
Humans and the environment
Food systems
Political ecology
Political economy
Ethnoarchaeology
Archaeometry

FIELDWORK EXPERIENCE

Co-director (with C. Parceró-Oubiña (Consejo Superior de Investigaciones Científicas (Spain) and A. Troncoso and D. Salazar (Universidad de Chile)), *Agriculture and Empire in the High-Altitude Atacama*, late June-July 2013 and late October – mid November 2013
Director, *Proyecto Ynalche*, research on ancient agriculture on the Pampa de Chaparrí, Lambayeque, Peru, July 2008 – July 2009
Ethnoarchaeological fieldwork on farming and land use, Lambayeque Peru, June-July 2007
Ethnoarchaeological fieldwork on maize beer (chicha) production, Chulucanas (Piura) and Lambayeque Peru, June 2005 and July 2006
Director, *Proyecto Ynalche*, research on ancient agriculture on the Pampa de Chaparrí, Lambayeque, Peru, May – July 1999, June - December 2000, June - July 2001
Ethnoarchaeological fieldwork on traditional pottery making, gourd working and beer brewing, Piura and Lambayeque, North Coast of Peru, July 1997
Director, excavation of Inka pottery workshops in northern Lambayeque, Peru, October -December 1995
Field assistant, Tlaltenango Valley Project, Zacatecas, Mexico, directed by J. Andrew Darling, May - June 1993
Field assistant, survey of obsidian sources in southern Zacatecas and northern Jalisco, Mexico, directed by J. Andrew Darling, July - August 1992
Director, survey and excavation of Inka period sites, northern Lambayeque, Peru, June 1989 -August 1990 and July - September 1991
Director, survey of late prehispanic and colonial sites, northern Lambayeque, Peru, pre-dissertation research, June - August 1988
Field assistant, excavations of a Bronze Age site, Klarafalva, Hungary, directed by John O'Shea, July - August 1987
Field assistant, survey of sites damaged by road construction and maintenance, Zuni, New Mexico, Zuni Archaeology Program, May - June 1987
Field assistant, excavations at Batán Grande, Lambayeque, Peru, Sicán Archaeological Project, directed by Izumi Shimada, June - August 1985 and June - August 1986
Field assistant, excavations at Cahuachi, Nazca, Peru, directed by Helaine Silverman, September - October 1984
Field assistant, survey and mapping of Inka settlement and associated quarries, Ollantaytambo, Peru, directed by Jean Pierre Protzen, June 1984
Director, survey of preceramic *puna* sites, Junín, Peru (M.A. thesis research), June-September 1983 and July - August 1984.
Field assistant, excavations at Panaulauca, Junín, Peru, Junín Prehistoric Ecology Project, directed by John W. Rick, June - August 1981 and June - September 1982
Field assistant, excavation of Ohlone settlements at Stanford, California, San Francisquito Research Project, directed by John W. Rick and Barbara Bocek. March - June 1981 and March - June 1984.

ADDITIONAL RESEARCH EXPERIENCE

- Paleoethnobotanical analysis, late prehispanic and early colonial sites associated with the sunken agricultural fields of Chilca, Peru in collaboration with Dr. Neil Duncan (University of Missouri) and Dr. Jeffrey Parsons (University of Michigan). June 2011
- Selected participant, National Science Foundation sponsored course, *Methods in Ethnoecology*, taught by Gary Martin and Richard Stepp, July 30 – August 5, 2006
- Archaeometric research on Inka pottery in collaboration with Dr. Ursel Wagner, Dept. of Physics, Technical University of Munich, August 1997-July 1998
- Archival and artifactual research, University Museum, University of Pennsylvania. Study of the Max Uhle archive and collections from Pachacamac. June – August 1995.
- Research Assistant, University of Michigan, Phoenix Memorial Laboratory (Ford Nuclear Reactor). Neutron activation analysis of Mexican obsidian in collaboration with J. Andrew Darling. September 1992 - April 1993.
- Intern, Missouri University Research Reactor. Thin section and neutron activation analysis of Inka pottery, supervised by Michael Glascock and Hector Neff. November 1991 - January 1992.
- Research Assistant, University of Michigan, Museum of Anthropology. Bibliographic research on lithic raw material trade and transport during the Palaeolithic for Robert Whallon. January - April 1992.
- Research Assistant, Stanford University, Dept. of Anthropology. Archaeological database management for John Rick. January - June 1984; December 1984 - May 1985.

COURSES TAUGHT

- Comparative Early Civilizations* (Co-taught with Dr. Norman Yoffee)
- World Archaeology* (Extended University, UNM)
- Conservation and Indigenous People*
- Food, Foraging, and Farming* (Undergraduate Capstone, UNM)
- Human Impacts on the Environment: Archaeological Perspectives*
- Strategies for Sustainability: Case Studies from the Andes* (Honors course co-taught with Dr. Heather Karsten with study tour to Peru.)
- Strategies in Archaeology* (previously taught as *Archaeological Methods, Theory, and Practice*)
- Archaeological Method and Theory* (Previously taught as *Fundamentals of Archaeology*)
- The Intellectual History of Archaeology*
- South American Archaeology*
- People and Cultures of the Andes*
- The Rise and Fall of the Inka Empire*
- Inka Technology and Culture*
- Crafts and Crops: Production in Ancient Societies*

Mean student evaluation scores: Pennsylvania State University (scale of 1 (lowest) to 7 (highest), n=23 courses): Overall quality of course = 6.16, Overall quality of instructor = 6.53; University of Missouri (scale of 1 (lowest) to 5 (highest), n=7 courses): Course as a whole = 4.66, Content of the course = 4.67, Overall teaching effectiveness = 4.74; University of New Mexico (scale of 1 (lowest) to 5 (highest), n=16 courses); Excellent course = 4.45, Excellent teacher = 4.6

ADDITIONAL TEACHING EXPERIENCE

- Course Designer for *Archaeological Methods, Theory, and Practice* for [MATRIX](#) a national archaeology curriculum project sponsored by the Society for American Archaeology and funded by the National Science Foundation.
- Study Leader, Smithsonian Study Tours and Seminars, *The Legacy of the Inka*, June 1996, September 1996
- Study Leader, Smithsonian Study Tours and Seminars, *In the Wake of Darwin: Patagonia to Peru*, March 1996
- Acting Instructor, Stanford University, Dept. of History, *The World Outside the West*. January - March 1988.

ADVISING

Current students

Ph.D. advisor (students who have not yet formed a doctoral committee):

University of New Mexico: James Davenport, Beau Murphy, Madeline Scheintaub (all in archaeology)

Dissertation committee chair:

University of New Mexico: Sandra Arazi Coombs and Caroline Gabe (both in archaeology)

Dissertation committee member:

University of New Mexico: Michael Grooms, Mark Oxley, Nicholas Jarman, Jill Jordan, Amy Thompson, Maria Hroncich (all in archaeology); Anne Francis Santos (cultural anthropology)
Southern Illinois University: Cristina Rospigliosi, Rafael Segura

Comprehensive examination committee member:

University of Arizona: Ester Echenique

Honors thesis advisor:

University of New Mexico: Miguel Martínez

Mentor:

University of New Mexico: Anna Kebler (Regents' Scholar)

Students who have completed their degrees

Dissertation committee member:

University of New Mexico: B. Lee Drake (archaeology)
University of Missouri: Neil Duncan (archaeology)
Pennsylvania State University: Gerardo Gutierrez, Janet Schulenberg, and Jessica Burgett (all archaeology); Bethany Usher (biological anthropology)
Southern Illinois University: Jorge Montenegro (archaeology)
University of Arizona: Rafael Vega-Centeno (archaeology)

Honors thesis advisor:

Pennsylvania State University: Melissa Paugh, Adam Freeburg, Colleen Strawhacker (all archaeology);
Laura Rosell (cultural anthropology)

Honors thesis reader:

University of New Mexico: Samantha Doyle (museum studies)

PUBLICATIONS

(* refereed)

Hayashida, F.M., D. Killick, I. Shimada, W. Häusler, F.E. Wagner, U. Wagner

2014 A pre-Columbian copper alloy smelting furnace: Mössbauer and XRD study of the firing conditions. *Hyperfine Interactions* 224:161–170.

Hayashida, F.

In Press Beer. Entry in *The Archaeology of Food: An Encyclopedia*, edited by M. Beaudry and K. Metheny, Altamira Press.

Hayashida, F.

In Press Chicha. Entry in *The Archaeology of Food: An Encyclopedia*, edited by M. Beaudry and K. Metheny, Altamira Press.

Hayashida, F. and N. Guzman

In Press Inka incorporation of the north coast of Peru. Chapter in *The Inca Empire: A Multidisciplinary Approach to a Holistic Vision*, edited by Izumi Shimada, University of Texas Press.

Hayashida, F.

In Press The Pampa de Chaparrí: Sicán agriculture and its transformations under Chimú and Inka rule. To be published in Spanish in *La Cultura Sicán: Una Visión Global*, edited by Izumi Shimada, Editorial del Congreso del Perú.

Huckleberry, G., F. Hayashida and J. Johnson

- 2012* New Insights into the Evolution of an Intervalley Prehistoric Irrigation Canal System, North Coastal Peru. *Geoarchaeology* 27(6):492-520
- Hayashida, F. and N. Guzman
- 2012 Inka incorporation of the north coast of Peru. Published in Japanese in *Diversity and Unity in the Inka Empire: Current Visions and Issues*, edited by Izumi Shimada, Tokai University Press.
- Hayashida, F.
- 2009 Sicán agriculture and its transformations under Chimú and Inka Rule: The Pampa de Chaparrí as a case study. Published in Japanese in *The Golden Capital of Sicán: Precursor of the Inka Empire*, National Museum of Nature and Science, Tokyo, pp. 372-380.
- 2009* Chicha histories: prehispanic chicha production in the Andes and the use of ethnographic and historical analogues. In *Drink, Power, and Society in the Andes*, edited by J. Jennings and B. Bowser, University of Florida Press, Gainesville.
- 2008* Ancient beer and modern brewers: ethnoarchaeological observations of maize beer (*chicha*) production in two regions of the north coast of Peru, *Journal of Anthropological Archaeology* 27(2):161-174.
- 2006* The Pampa de Chaparrí: water, land, and politics on the north coast of Peru. *Latin American Antiquity* 17(3):243-264.
- 2005* Archaeology, ecological history, and conservation. *The Annual Review of Anthropology* 34:43-65.
- Figueroa, A., F. Hayashida
- 2004 [2005] Sitios amurallados en la costa norte del Perú: Observaciones preliminares de Cerro Arena, Pampa de Chaparrí, Lambayeque [Walled sites on the north coast of Peru: preliminary observations on Cerro Arena, Pampa de Chaparrí, Lambayeque]. *Boletín de Arqueología* 8:359-371. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington. Published in 2005.
- Tellez, S., F. Hayashida
- 2004 [2005] Campos de cultivo prehispánicos en la Pampa de Chaparrí [Prehistoric agricultural fields in the Pampa de Chaparrí]. *Boletín de Arqueología* 8:373-390. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington. Published in 2005.
- Nordt, L., F. Hayashida, T. Hallmark, and C. Crawford
- 2004* Late prehistoric soil fertility and agricultural production in northwest coastal Peru. *Geoarchaeology*, 19(1):21-46.
- Hayashida, F.
- 2003 [2005] Leyendo el registro arqueológico del dominio inka: reflexiones desde la costa norte del Perú [Reading the material record of Inka rule: Views from the north coast of Peru]. *Boletín de Arqueología* 7:305-319. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington. Published in 2005.
- 2003* Bridging the gap between archaeology and the physical sciences. *Hyperfine Interactions* 150:7-11.
- Hayashida, F., W. Häusler, U. Wagner
- 2003* Technology and organisation of Inka pottery production in the Leche Valley. Part I: study of clays. *Hyperfine Interactions* 150:141-152.
- Hayashida, F., W. Häusler, J. Riederer, U. Wagner
- 2003* Technology and organisation of Inka pottery production in the Leche Valley. Part II: study of fired vessels. *Hyperfine Interactions* 150:153-163.
- Hayashida, F., M. Glascock, W. Häusler, H. Neff, J. Riederer, U. Wagner
- 2002* Technology and organization of Inka pottery production: archaeometric perspectives. In *Archaeometry 98: Proceedings of the 31st International Archaeometry Symposium Vol. II*, edited by E. Jerem and K. Biro, pp. 573-580. BAR International Series 1043, British Archaeological Reports, Oxford.
- Weiss, K. and F. Hayashida
- 2002 KulturCrisis! Cultural evolution going round in circles. *Journal of Evolutionary Anthropology* 11(4):136-141.

Hayashida, F.

1999* Style, technology, and administered production: the manufacture of Inka pottery in the Leche Valley, Peru. *Latin American Antiquity* 10(4):337-352.

1998* New insights into Inka pottery production. In *Andean Ceramics: Technology, Organization, and Approaches*, edited by Izumi Shimada, MASCA Research Papers, pp. 313-335, Volume 15 supplement, University Museum of Archaeology and Anthropology, University of Pennsylvania, Philadelphia.

Darling, J. A. and F. Hayashida

1995* Analysis of obsidian sources in the southern Sierra Madre Occidental, Mexico. *Journal of Radioanalytical and Nuclear Chemistry, Articles*, 196(2):245-254.

Hayashida, F.

1994* Producción cerámica en el imperio Inka: Una visión global y nuevos datos. In *Tecnología y organización de la producción de cerámica prehispánica*, edited by Izumi Shimada, pp. 443-475, Fondo Editorial, Pontificia Universidad Católica, Lima.

IN PREPARATION

Killick, D, and F. Hayashida

n.d. Lung-powered copper smelting of the Middle Sicán period on the Pampa de Chaparrí, Lambayeque Department, Peru. Manuscript in preparation for the *Journal of Archaeological Science*

Strawhacker, C. and F. Hayashida

n. d. Long-Term Irrigation in the Late Intermediate Period of the North Coast of Peru: Soil Quality on the Pampa de Chaparrí. Manuscript in preparation for *Human Ecology*.

Parcerro-Oubiña, C., P. Fábrega-Álvarez, A. Troncoso, D. Salazar, F. Hayashida, M. Pino and C. Borie

n.d. Documenting and understanding a complex pattern of prehispanic fields and irrigation canals in the arid highlands of Atacama (Northern Chile). Manuscript in preparation for *Journal of Field Archaeology*.

WEB PUBLICATIONS

Hayashida, F.

2003 **Archaeological Methods and Theory. Teaching Statement and Course Artifacts.** Course materials designed for the Society for American Archaeology MATRIX national curriculum project.

SELECTED TECHNICAL REPORTS

Parcerro-Oubiña, C., P. Fábrega-Álvarez, C. Ferro, A. Troncoso, D. Salazar, F. Hayashida

2013 *Paisajes Fortificados en el Altiplano Andino. El Pukara de Topaín. Memoria campaña 2012.* Report submitted to the Ministry of Culture, Dirección General de Bellas Artes y Bienes Culturales, programa Ayudas para Proyectos Arqueológicos en el Exterior, Spain.

Hayashida, F.

2010 *Proyecto Arqueológico Ynalche: Informe de la temporada de 2009.* Report submitted to the Instituto Nacional de Cultura, Peru. 264 pages including appendices

Hayashida, F.

2009 *Proyecto Arqueológico Ynalche: Informe de la temporada de 2008.* Report submitted to the Instituto Nacional de Cultura, Peru. 202 pages including appendices and 2 oversized map/illustration inserts.

Hayashida, F.

2002 *Proyecto Ynalche: Informe de la temporada de 2001.* Report submitted to the Instituto Nacional de Cultura, Peru. 72 pages and 3 oversized map/illustration inserts.

Hayashida, F.

2001 *Proyecto Ynalche: Informe de la temporada de 2000.* Report submitted to the Instituto Nacional de Cultura, Peru. 146 pages and 3 oversized map/illustration inserts.

Hayashida, F.

2000 *Proyecto Ynalche: Informe de la temporada de 1999.* Report submitted to the Instituto Nacional de Cultura, Peru.

Hayashida, F., E. Reese

- 1997 Prehistoric Artifacts. In *Report of Archaeological Findings at CA-SCL-613, Children's Health Council, Santa Clara County, California*. Report prepared for the Stanford Archaeology Program.
Hayashida, F.
- 1987 *Preliminary assessment of damage to archaeological sites caused by road construction and maintenance*. Report submitted to the Zuni Archaeology Program, Zuni, New Mexico.

BOOK REVIEWS

- 2011 Review of *The Archaeology of Environmental Change: Socionatural Legacies of Degradation and Resilience*, edited by Christopher T. Fisher, J. Brett Hill, and Gary M. Feinman, *Journal of Anthropological Research* 67(2):271-273.
- 2009 Review of *Ancient Timanaku* by John W. Janusek, *Journal of Anthropological Research* 65(4):666-667.
- 2005 Review of *Ancient Cuzco: Heartland of the Inca* by Brian Bauer, Special issue (no. 7) of the *Boletín de Arqueología, Pontificia Universidad Católica del Perú (Identidad y transformación en el Tawantinsuyu y en los Andes Coloniales. Perspectivas arqueológicas y etnohistóricas)* edited by P. Kaulicke, G. Urton, and I. Farrington.
- 2001 Review of *Ceramic Production and Distribution in the Chavín Sphere of Influence (North-Central Andes)* by Isabelle C. Druc, *Latin American Antiquity* 12(2):221.
- 1996 Book note on *In Quest of Mineral Wealth: Aboriginal and Colonial Mining and Metallurgy in Spanish America*, edited by Alan K. Craig and Robert C. West. *American Antiquity* 61(3).

DISSERTATION

- 1995 *State Pottery Production in the Inka Provinces*. Ph.D. dissertation, Dept. of Anthropology, University of Michigan.

PRESENTATIONS AT PROFESSIONAL CONFERENCES

(* invited)

- Hayashida, F.
- 2014* Water management and conflicts in the Andes: ancient practices, modern applications. Paper to be presented at *Tradeoffs and Sustainability*, sponsored seminar, Amerind Foundation, April 2014. To be published in the *New Directions in Sustainability and Society* series, Cambridge University Press.
- Hayashida, F.
- 2014* **Discussant**, *Student Futures Part 1: Surviving and Thriving as a Student*, forum sponsored by the Student Affairs Committee of the Society for American Archaeology, 79th Annual Meeting of the Society for American Archaeology, Austin.
- Hayashida, F.
- 2014* **Discussant** in the symposium *Correlation is not Enough: Building Better Arguments in the Archaeology of Human-Environment Interaction*, 79th Annual Meeting of the Society for American Archaeology, Austin.
- Parceró Oubiña, C., P. Fábrega-Álvarez, A. Troncoso, D. Salazar, M. Pino, C. Borie, F. Hayashida
- 2013 Seeing the full picture from above: Understanding a complex pattern of fields and irrigation channels in the highlands of Atacama Chile. Annual Meeting of the Aerial Archaeology Research Group Amersfoort, The Netherlands, September 26-28.
- Hayashida, F.M., D. Killick, I. Shimada, W. Häusler, F.E. Wagner, and U. Wagner
- 2013 A pre-Columbian copper alloy smelting furnace: Mössbauer and XRD study of the firing conditions. Poster presented at the 78th Annual Meeting of the Society for American Archaeology, Honolulu, Hawaii.
- Hayashida, F., W. Häusler, F. Wagner and U. Wagner
- 2012 A pre-Columbian copper smelting furnace: Mössbauer and XRD study of the firing conditions. Paper presented at the XIII Latin American Conference on the Applications of the Mössbauer Effect, Medellín, Colombia.
- Killick, D. and F. Hayashida
- 2012 Lung-powered copper smelting of the Sican Period (900-1375 CE), North Coastal Peru. Paper presented at the 39th International Symposium on Archaeometry, Leuven, Belgium.

Hayashida, F.

2012* *Archaeology and the wider world*. Paper presented at the 77th Annual Meeting of the Society for American Archaeology, Memphis, Tennessee in the sponsored symposium “*Lessons from the Trenches*”: *The Pedagogy of Archaeology and Heritage*

2011* *Archaeology and environmental justice*. Paper presented at the 34th Annual Meeting of the Society of Ethnobiology in Columbus, Ohio in the symposium *International Ethnobiological and Ecological Perspectives on Environmental Justice*

2011* *Politics, food, and farming on the late prehispanic north coast of Peru*. Paper presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California.

Strawhacker, C. and F. Hayashida

2011 *Prehispanic irrigated agricultural soils on the north coast of Peru: the effects of different land use intensities on agricultural soil quality*. Paper presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California.

2010 *Prehispanic irrigated soils on the north coast of Peru: preliminary results from soil sampling on agricultural fields*. Poster presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri.

Hayashida, F.

2009* *The Proyecto Ynalche: late prehispanic political economy on the north coast of Peru*. Paper presented at the 74th Annual Meeting of the Society for American Archaeology, Atlanta, Georgia.

2008* *El Proyecto Ynalche: la ocupación prehispanica tardía de la Pampa de Chaparri* [The Ynalche Project: the late prehispanic occupation of the Pampa de Chaparri]. Paper presented in Spanish at the conference *Proyecto Arqueológico Sicán: 30 años revelando la cultura ancestral de Lambayeque*, Chiclayo, Peru.

2007* *The political ecology of water on the north coast of Peru*. Paper presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin, Texas.

2006* **Discussant**, *Craft production, exchange, and provenance analysis of Andean ceramics: current research and future directions*, symposium presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico.

2005 *Chicha (maize beer) production on the north coast of Peru: ethnoarchaeological observations from Piura*. 24th Northeast Conference on Andean Archaeology and Ethnohistory, Washington DC.

2005* **Discussant** in *Professional development and advancement strategies in the applied and academic spheres*, a sponsored forum presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah.

Hayashida, F., L. Nordt, T. Hallmark

2004* *Soil fertility, water management, and agriculture on the north coast of Peru*. Paper presented in the sponsored symposium *Geoarchaeology and Complex Societies* at the 69th Annual Meeting of the Society for American Archaeology, Montreal, Quebec.

Hayashida, F.

2004* **Discussant** in *Introducing MATRIX: making archaeology teaching relevant in the XXI century*, a sponsored forum presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal, Quebec.

2003* *Beer, politics, and society in the Inka Empire*. Paper presented in the opening session of the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.

2002* *Leyendo el registro arqueológico del dominio inka* [Reading the material record of Inka rule]. Paper presented in Spanish at the Fourth Annual International Archaeology Symposium, Pontificia Universidad Católica del Perú, *Identidad y transformación en el Tawantinsuyu y en los Andes Coloniales. Perspectivas arqueológicas y etnohistóricas*.

2002* **Discussant** in *The archaeology of workshops: the spatial organization and social relations of production*, a forum presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado.

2002 **Co-organizer** (with Izumi Shimada) of *Life, land, and production in Lambayeque, Peru*, a symposium presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado.

2002 Hayashida, F., A. Freeburg.

- Life, land, and water on the Pampa de Chaparri*. Poster presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado.
- 2000* *Chimú and Inka agriculture in northern Lambayeque*. Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, Pennsylvania.
- 1999* **Discussant**, symposium on ceramic ecology organized by Charles Kolb and Louana Lackey, 98th Annual Meeting of the American Anthropological Society.
- 1999 Häusler, W., F. Hayashida, T. Hutzelmann, E. Murad, I. Shimada, H. Tschauer, F. E. Wagner, U. Wagner
Firing of clays studied by Mössbauer spectroscopy and X-Ray diffraction. Poster presented at the meeting *Mineralogy and Ceramics, Ancient and Modern* organized by the Applied Mineralogy Group of the Mineralogical Society of Great Britain and Ireland, London
- 1998* *State pottery production in the Inka provinces: archaeometric perspectives*. Paper presented at the 97th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania.
- 1998 *Technology and organization of Inka pottery production: neutron activation analysis and Mössbauer spectroscopy studies*. Paper presented at the 31st International Symposium on Archaeometry, Budapest, Hungary.
- 1998* *The Inka occupation of the Leche Valley*. Paper presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle, Washington.
- 1998 *Chicha, pots, and gourds: ethnoarchaeological observations from the North Coast of Peru*. Paper presented at the Institute of Andean Studies Meetings, Berkeley, California.
- 1996* *State pottery production in the Inka provinces*. Paper presented at the 95th Annual Meeting of the American Anthropological Association, San Francisco, California.
- 1996* *State pottery production in the Inka empire*. Paper presented at the Chacmool Conference, “The Archaeology of Innovation and Science”, Calgary, Alberta.
- 1995* *Administered craft production in the Inka state*. Paper presented at the 60th Annual Meeting of the Society for American Archaeology, Minneapolis, Minnesota.
- Darling, J. A. and F. Hayashida
- 1994* *Analysis of obsidian sources in the southern Sierra Madre Occidental, Mexico*. Paper presented at the Symposium on Nuclear Archaeology, American Nuclear Society Winter Meeting, Washington, D.C., November 14, 1994.
- Hayashida, F.
- 1993* *Pottery production in the Inka provinces*. Paper presented at the 58th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri.
- 1991* *Inka pottery production in Lambayeque, Peru*. Paper presented at the 56th Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana.
- 1984* *Pre-ceramic settlement patterns of the Junín puna, Peru*. Paper presented at the 49th Annual Meeting of the Society for American Archaeology, Portland, Oregon.

INVITED TALKS AND GUEST LECTURES (since 2006)

- 2013 *Water, land, and empire in the ancient Andes*. Latin American and Iberian Institute, University of New Mexico, September 26, 2013
- 2013 *Agua, tierra, y imperio en la costa norte del Perú*. Dept. of Anthropology, Universidad de Chile, July 30, 2013
- 2013 *Ancient beer and modern brewers: the ethnoarchaeology of maize beer (chicha) on the north coast of Peru*. Southwest Seminars, Santa Fe, May 13, 2013
- 2012 *Cerveza antigua y cerveceras modernas: la etnoarqueología de la producción de cerveza de maíz (chicha) en la costa norte del Perú*. Instituto de Ciencias del Patrimonio, Santiago de Compostela, Spain, March 15, 2012.
- 2012 *Ancient beer and modern brewers: the ethnoarchaeology of maize beer (chicha) on the north coast of Peru*. UNM Anthropology Graduate Student Union, January 20, 2012
- 2009 *La etnoarqueología de la producción de chicha en la costa norte del Perú*. Archaeology program, Pontificia Universidad Católica del Perú, April 20, 2009
- 2008 *Water, land, and politics on the late prehispanic north coast of Peru*. Dept. of Anthropology, University of Chicago, May 5, 2008

- 2007 *Modern brewers and ancient beer: ethnoarchaeological observations on maize beer (chicha) production from the north coast of Peru.* Dept. of Anthropology, University of Illinois Urbana-Champaign, and the Illinois Transportation Archaeological Research Program, April 5, 2007
- 2006 *Modern brewers and ancient beer: ethnoarchaeological observations on maize beer (chicha) production from the north coast of Peru.* Anthropology Students Association, University of Missouri, November 10, 2006

PROFESSIONAL SERVICE

Service to the profession

- Task force to select new co-editors of *Latin American Antiquity*, Society for American Archaeology, 2012
- Scientific Committee, 7th World Archaeological Congress, 2012
- Committee on the Americas, Society for American Archaeology, 2005 - 2010
- Editorial Board, Society for American Archaeology Press, 2005 - 2008
- Task Force on Diversity, Society for American Archaeology, 2004 - 2005
- Manuscript reviews for *American Antiquity*, *American Anthropologist*, *Andean Past*, *Chungara*, *Current Anthropology*, *Fieldiana*, *Latin American Antiquity*, *Journal of Anthropological Archaeology*, *Journal of Anthropological Research*, *Journal of Archaeological Method and Theory*, *Journal of Archaeological Research*, *Journal of Archaeological Science*, *Journal of the World Archaeological Congress*, *Ñawpa Paccha*
- Research proposal reviews for the National Science Foundation (Archaeology, Major Equipment, CAREER, Geomorphology and Land Use Dynamics), the National Geographic Society, the Wenner-Gren Foundation for Anthropological Research, and Sigma Delta Epsilon/ Graduate Women in Science

Service to the University of New Mexico

- Director of Graduate Studies, Dept. of Anthropology, Summer 2012-present
- Graduate Advisor, Dept of Anthropology, Archaeology Subfield, Fall 2011-present
- Resource Allocation Committee, Dept. of Anthropology, Fall 2011
- Latin American and Iberian Institute, Executive Committee, Fall 2011-Spring 2013
- Search Committee, Ethnology Position, Department of Anthropology, Fall 2010-Spring 2011
- Undergraduate Advisor, Department of Anthropology, Archaeology, Spring 2011
- Master's Exam Committee, Department of Anthropology (Archaeology), 2009-2011
- Grants and Awards Committee, Latin American and Iberian Institute, Fall 2009, Spring 2011(with Les Field)

Service to the University of Missouri

Member, Dept. of Anthropology Committees: Graduate Studies (2007-2008), Casts/Skeletal Collections (2006-2007), Awards/Distinctions (2006-2007), Curriculum (2006-2008), Lectures (2006-2007), Chair's Advisory (2007-2008), Undergraduate Studies (2007-2008)

Service to the Pennsylvania State University

Advisory Board, Science, Medicine and Technology in Culture initiative of the Rock Ethics Institute, College of Liberal Arts, 2004-2005

Faculty Steering Committee, Interinstitutional Consortium on Indigenous Knowledge, design and implementation of survey on indigenous knowledge perspectives in the classroom, 2004

Advisory Committee, College of Liberal Arts, Diversity Strategic Plan 1999-2000

Various committees, Dept. of Anthropology, (Museum Committee, Archaeology Search Committee, Undergraduate Curriculum Committee), 1998-2005

PROFESSIONAL MEMBERSHIPS

Society for American Archaeology

Institute of Andean Studies
Sigma Xi
Register of Professional Archaeologists